

OIPF

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/717,641
 DATE: 12/06/2000
 TIME: 15:13:14

Input Set : A:\P0645P4D2C3.txt
 Output Set: N:\CRF3\12062000\I717641.raw

SEQUENCE LISTING

ENTERED

W--> 3 SEQUENCE LISTING

5 (1) GENERAL INFORMATION:

7 (i) APPLICANT: Garrard, Lisa J.
 8 Henner, Dennis J.
 9 Bass, Steven
 10 Greene, Ronald
 11 Lowman, Henry B.
 12 Wells, James A.
 13 Matthews, David J.

15 (ii) TITLE OF INVENTION: ENRICHMENT METHOD FOR VARIANT PROTEINS WITH
 16 ALTERED BINDING PROPERTIES

18 (iii) NUMBER OF SEQUENCES: 43

20 (iv) CORRESPONDENCE ADDRESS:

21 (A) ADDRESSEE: Genentech, Inc.
 22 (B) STREET: 1 DNA Way
 23 (C) CITY: South San Francisco
 24 (D) STATE: California
 25 (E) COUNTRY: USA
 26 (F) ZIP: 94080

28 (v) COMPUTER READABLE FORM:

29 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 30 (B) COMPUTER: IBM PC compatible
 31 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 32 (D) SOFTWARE: Winvatin (Genentech)

34 (vi) CURRENT APPLICATION DATA:

C--> 35 (A) APPLICATION NUMBER: US/09/717,641
 C--> 36 (B) FILING DATE: 21-Nov-2000
 37 (C) CLASSIFICATION:

67 (vii) PRIOR APPLICATION DATA:

40 (A) APPLICATION NUMBER: 08/922345
 41 (B) FILING DATE: 03-SEP-1997
 44 (A) APPLICATION NUMBER: 08/463587
 45 (B) FILING DATE: 05-JUN-1995
 48 (A) APPLICATION NUMBER: 08/050058
 49 (B) FILING DATE: 30-APR-1993
 52 (A) APPLICATION NUMBER: PCT/US91/09133
 53 (B) FILING DATE: 03-DEC-1991
 56 (A) APPLICATION NUMBER: 07/743614
 57 (B) FILING DATE: 09-AUG-1991
 60 (A) APPLICATION NUMBER: 07/715300
 61 (B) FILING DATE: 14-JUN-1991
 64 (A) APPLICATION NUMBER: 07/683400
 65 (B) FILING DATE: 10-APR-1991
 68 (A) APPLICATION NUMBER: 07/621667
 69 (B) FILING DATE: 03-DEC-1990

71 (viii) ATTORNEY/AGENT INFORMATION:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/717,641
DATE: 12/06/2000
TIME: 15:13:14

Input Set : A:\P0645P4D2C3.txt
Output Set: N:\CRF3\12062000\I717641.raw

72 (A) NAME: Schwartz, Timothy R.
73 (B) REGISTRATION NUMBER: 32171
74 (C) REFERENCE/DOCKET NUMBER: P0645P4D2C3
76 (ix) TELECOMMUNICATION INFORMATION:
77 (A) TELEPHONE: 650/225-7467
78 (B) TELEFAX: 650/952-9881
79 (2) INFORMATION FOR SEQ ID NO: 1:
81 (i) SEQUENCE CHARACTERISTICS:
82 (A) LENGTH: 36 base pairs
83 (B) TYPE: Nucleic Acid
84 (C) STRANDEDNESS: Single
85 (D) TOPOLOGY: Linear
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
90 GGCAGCTGTG GCTTCTAGAG TGGCGGCGGC TCTGGT 36
92 (2) INFORMATION FOR SEQ ID NO: 2:
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 36 base pairs
96 (B) TYPE: Nucleic Acid
97 (C) STRANDEDNESS: Single
98 (D) TOPOLOGY: Linear
100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
103 AGCTGIGGCT TCGGGCCCTT AGCATTTAAT GCGGTA 36
105 (2) INFORMATION FOR SEQ ID NO: 3:
107 (i) SEQUENCE CHARACTERISTICS:
108 (A) LENGTH: 33 base pairs
109 (B) TYPE: Nucleic Acid
110 (C) STRANDEDNESS: Single
111 (D) TOPOLOGY: Linear
113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
116 TTCACAAACG AAGGGCCCTT AATTAAAGCC AGA 33
118 (2) INFORMATION FOR SEQ ID NO: 4:
120 (i) SEQUENCE CHARACTERISTICS:
121 (A) LENGTH: 30 base pairs
122 (B) TYPE: Nucleic Acid
123 (C) STRANDEDNESS: Single
124 (D) TOPOLOGY: Linear
126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
129 CAATAATAAC GGGCTAGCCA AAAGAACTGG 30
131 (2) INFORMATION FOR SEQ ID NO: 5:
133 (i) SEQUENCE CHARACTERISTICS:
134 (A) LENGTH: 24 base pairs
135 (B) TYPE: Nucleic Acid
136 (C) STRANDEDNESS: Single
137 (D) TOPOLOGY: Linear
139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
142 CACGACAGAA TTCCCGACTG GAAA 24
144 (2) INFORMATION FOR SEQ ID NO: 6:
146 (i) SEQUENCE CHARACTERISTICS:
147 (A) LENGTH: 23 base pairs

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/717,641
 DATE: 12/06/2000
 TIME: 15:13:14

Input Set : A:\P0645P4D2C3.txt
 Output Set: N:\CRF3\12062000\I717641.raw

```

148      (B) TYPE: Nucleic Acid
149      (C) STRANDEDNESS: Single
150      (D) TOPOLOGY: Linear
152      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
155      CTGTTTCTAG ACIGAAATTG TTA 23
157      (2) INFORMATION FOR SEQ ID NO: 7:
159      (i) SEQUENCE CHARACTERISTICS:
160          (A) LENGTH: 21 base pairs
161          (B) TYPE: Nucleic Acid
162          (C) STRANDEDNESS: Single
163          (D) TOPOLOGY: Linear
165      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
168      ACATTCCTGG GTACCGTCA G 21
170      (2) INFORMATION FOR SEQ ID NO: 8:
172      (i) SEQUENCE CHARACTERISTICS:
173          (A) LENGTH: 63 base pairs
174          (B) TYPE: Nucleic Acid
175          (C) STRANDEDNESS: Single
176          (D) TOPOLOGY: Linear
178      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
181      GCTTCAGGAA GGACATGGAC NNSGTCNNSA CANNSTGNN SATCGTGCAG 50
183      TGCCGCTCTG TGG 63
185      (2) INFORMATION FOR SEQ ID NO: 9:
187      (i) SEQUENCE CHARACTERISTICS:
188          (A) LENGTH: 24 base pairs
189          (B) TYPE: Nucleic Acid
190          (C) STRANDEDNESS: Single
191          (D) TOPOLOGY: Linear
193      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
196      AAGGTCTCCA CATACCTGAG GATC 24
198      (2) INFORMATION FOR SEQ ID NO: 10:
200      (i) SEQUENCE CHARACTERISTICS:
201          (A) LENGTH: 33 base pairs
202          (B) TYPE: Nucleic Acid
203          (C) STRANDEDNESS: Single
204          (D) TOPOLOGY: Linear
206      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
209      ATGGACAAGG TCTCGACAIA CCTGCGCATC GTG 33
211      (2) INFORMATION FOR SEQ ID NO: 11:
213      (i) SEQUENCE CHARACTERISTICS:
214          (A) LENGTH: 36 base pairs
215          (B) TYPE: Nucleic Acid
216          (C) STRANDEDNESS: Single
217          (D) TOPOLOGY: Linear
219      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
222      GGCAGCTGTG GATTCTAG\G TGGCGGTGGC TCTGGT 36
224      (2) INFORMATION FOR SEQ ID NO: 12:
226      (i) SEQUENCE CHARACTERISTICS:
227          (A) LENGTH: 12 amino acids
  
```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/717,641
 DATE: 12/06/2000
 TIME: 15:13:14

Input Set : A:\P0645P4D2C3.txt
 Output Set: N:\CRF3\12062000\I717641.raw

```

228      (B) TYPE: Amino Acid
229      (D) TOPOLOGY: Linear
231      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
233      Gly Ser Cys Gly Phe Glu Ser Gly Gly Ser Gly
234      1          5          10
236 (2) INFORMATION FOR SEQ ID NO: 13:
238      (i) SEQUENCE CHARACTERISTICS:
239          (A) LENGTH: 27 base pairs
240          (B) TYPE: Nucleic Acid
241          (C) STRANDEDNESS: Single
242          (D) TOPOLOGY: Linear
244      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
247      CGGACTGGGC AGATAFICAA GCAGACC 27
249 (2) INFORMATION FOR SEQ ID NO: 14:
251      (i) SEQUENCE CHARACTERISTICS:
252          (A) LENGTH: 38 base pairs
253          (B) TYPE: Nucleic Acid
254          (C) STRANDEDNESS: Single
255          (D) TOPOLOGY: Linear
257      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
260      CTCAAGAACT ACGGGTTACC CTGACTGCTT CAGGAAGG 38
262 (2) INFORMATION FOR SEQ ID NO: 15:
264      (i) SEQUENCE CHARACTERISTICS:
265          (A) LENGTH: 30 base pairs
266          (B) TYPE: Nucleic Acid
267          (C) STRANDEDNESS: Single
268          (D) TOPOLOGY: Linear
270      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
273      CGCATCGIGC AGTGCAGAIC TGTGGAGGGC 30
275 (2) INFORMATION FOR SEQ ID NO: 16:
277      (i) SEQUENCE CHARACTERISTICS:
278          (A) LENGTH: 66 base pairs
279          (B) TYPE: Nucleic Acid
280          (C) STRANDEDNESS: Single
281          (D) TOPOLOGY: Linear
283      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
286      GTTACTCTAC TGCTTTCAGG AAGGACATGG ACNNSGTCNN SACANNSCTG 50
288      NNSATCGTGC AGTGCA 66
290 (2) INFORMATION FOR SEQ ID NO: 17:
292      (i) SEQUENCE CHARACTERISTICS:
293          (A) LENGTH: 64 base pairs
294          (B) TYPE: Nucleic Acid
295          (C) STRANDEDNESS: Single
296          (D) TOPOLOGY: Linear
298      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
301      GATCTGCACT GCACGATSNN CAGSNTGTGS NNGACSNNGT CCATGTCCTT 50
303      CCIGAAGCAG TAGA 64
305 (2) INFORMATION FOR SEQ ID NO: 18:
307      (i) SEQUENCE CHARACTERISTICS:

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/717,641
 DATE: 12/06/2000
 TIME: 15:13:14

Input Set : A:\P0645P4D2C3.txt
 Output Set: N:\CRF3\12062000\I717641.raw

```

308      (A) LENGTH: 25 base pairs
309      (B) TYPE: Nucleic Acid
310      (C) STRANDEDNESS: Single
311      (D) TOPOLOGY: Linear
313      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
316      GCCITTGACA GGTACCAGGA GTTIG 25
318      (2) INFORMATION FOR SEQ ID NO: 19:
320      (i) SEQUENCE CHARACTERISTICS:
321      (A) LENGTH: 33 base pairs
322      (B) TYPE: Nucleic Acid
323      (C) STRANDEDNESS: Single
324      (D) TOPOLOGY: Linear
326      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
329      CCAACTATAC CACTCTCGAG GTCTATTGTA TAA 33
331      (2) INFORMATION FOR SEQ ID NO: 20:
333      (i) SEQUENCE CHARACTERISTICS:
334      (A) LENGTH: 66 base pairs
335      (B) TYPE: Nucleic Acid
336      (C) STRANDEDNESS: Single
337      (D) TOPOLOGY: Linear
339      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
342      TCGAGGCTCN NSGACAACGC GNNSCIGCGT GCTNNSCGTC TTNNSCAGCT 50
344      GGCCITTGAC ACGTAC 66
346      (2) INFORMATION FOR SEQ ID NO: 21:
348      (i) SEQUENCE CHARACTERISTICS:
349      (A) LENGTH: 58 base pairs
350      (B) TYPE: Nucleic Acid
351      (C) STRANDEDNESS: Single
352      (D) TOPOLOGY: Linear
354      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
357      GTGTCAAAGG CCAGCTGSNN AAGACGSNNA GCACGCAGSN NCGCGTTGTC 50
359      SNNAGGCC 58
361      (2) INFORMATION FOR SEQ ID NO: 22:
363      (i) SEQUENCE CHARACTERISTICS:
364      (A) LENGTH: 65 base pairs
365      (B) TYPE: Nucleic Acid
366      (C) STRANDEDNESS: Single
367      (D) TOPOLOGY: Linear
369      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
372      GTTACTCTAC TGCTTCNNSA AGGACATGNN SAAGGTCAGC NNSTACCTGC 50
374      GCNNSGTGCA GTGCA 65
376      (2) INFORMATION FOR SEQ ID NO: 23:
378      (i) SEQUENCE CHARACTERISTICS:
379      (A) LENGTH: 64 base pairs
380      (B) TYPE: Nucleic Acid
381      (C) STRANDEDNESS: Single
382      (D) TOPOLOGY: Linear
384      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
387      GATCTGCACT GCACSNNGCG CAGGTASNNG CTGACCTTSN NCATGTCCTT 50

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/717,641

DATE: 12/06/2000

TIME: 15:13:15

Input Set : A:\P0645P4D2C3.txt

Output Set: N:\CRF3\12062000\I717641.raw

L:3 M:244 W: Invalid beginning of sequence listing, Data=[SEQUENCE LISTING], Duplicate Sequence Listing Title:
L:35 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:36 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]